

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Shinya Adachi

Title: "METHOD AND APPARATUS FOR TRANSMITTING POSITION
INFORMATION ON A DIGITAL MAP"

Docket No.: 34825US1

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, Va 22313-1450

Sir:

In accordance with 37 C.F.R. § 1.98, applicant is submitting herewith Form PTO-1449 listing references for consideration by the Examiner. Per 37 C.F.R. § 1.98(d), copies of the references are not required since each reference listed was cited in application Serial No. 10/169,639, filed on July 3, 2002.

Respectfully submitted,

PEARNE & GORDON LLP

By:


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Date: 29 Aug 03

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Form PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE			ATTY. DOCKET NO. 34825US1		SERIAL NO. N/A	
INFORMATION DISCLOSURE CITATION BY APPLICANT <i>(USE SEVERAL SHEETS IF NECESSARY)</i> Page 1 of 8					APPLICANT: Shinya Adachi			
					FILING DATE: Herewith		GROUP ART UNIT:	

U.S. PATENT DOCUMENTS							
Examiner Initial		Document No.	Date	Name	Class	Subclass	Filing Date
	A	4,807,127	02/1989	Tehmoku et al.			
	B	4,819,175	04/1989	Wuttke			
	C	4,893,246	01/1990	Iihoshi et al.			
	D	4,924,699	05/1990	Kuroda et al.			
	E	4,930,888	06/1990	Freisleben et al.			
	F	4,963,864	10/1990	Iihoshi et al.			
	G	4,963,865	10/1990	Ichikawa et al.			
	H	4,984,168	01/1991	Neukrichner et al.			
	I	5,040,122	08/1991	Neukirchner et al.			
	J	5,046,011	09/1991	Kakihara et al.			
	K	5,067,082	11/1991	Nimura et al.			
	L	5,214,757	05/1993	Mauney et al.			
	M	5,307,278	04/1994	Hermans et al.			
	N	5,311,195	05/1994	Mathis et al.			
	O	5,442,559	08/1995	Kuwahara et al.			
	P	5,488,559	01/1996	Seymour			
	Q	5,742,923	04/1998	Odagawa			
	R	5,839,087	11/1998	Sato			
	S	5,862,511	01/1999	Croyle et al.			
	T	5,899,954	05/1999	Sato			
	U	5,908,466	06/1999	Veugen et al.			
	V	5,948,043	09/1999	Mathis			

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		FILING DATE: Herewith	GROUP ART UNIT:

U.S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass	Filing Date
	A	5,995,023	11/1999	Kreft			
	B	6,002,981	12/1999	Kreft			
	C	6,035,253	03/2000	Hayashi et al.			
	D	6,038,559	03/2000	Ashby et al.			
	E	6,061,627	05/2000	Sato			
	F	6,108,603	08/2000	Karunanidhi			
	G	6,115,668	09/2000	Kaneko et al.			
	H	6,141,454	10/2000	Seymour et al.			
	I	6,188,959 B1	02/2001	Schupfner			
	J	6,230,100 B1	05/2001	Geier			
	K	6,240,368 B1	05/2001	Kreft			
	L	2001/0007088A1	05/2001	Winter et al.			
	M	2001/0001847A1	05/2001	Hessing			
	N	2001/0012981A1	08/2001	Yamashita et al.			
	O	2001/0016796A1	08/2001	Ata et al.			
	P	2001/0037177A1	11/2001	Nishida et al.			
	Q	6,314,360	11/2001	Becker			
	R	6,321,162	11/2001	Hessing			
	S	6,324,468 B1	11/2001	Meis et al.			
	T	6,333,703	12/2001	Alewine et al.			
	U	6,334,089 B2	12/2001	Hessing			
	V	6,345,229 B1	02/2002	Honkomp et al.			
	W	6,438,561	8/2002	Israni et al.			

Examiner:

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		FILING DATE: Herewith	GROUP ART UNIT:

FOREIGN PATENT DOCUMENTS							
		Document No.	Date	Country	Class	Subclass	Translation
	A	EP 0 478 438 B1	12/1995	EPO			No
	B	EP 0 875 877 A2	11/1998	EPO			Eng. Text
	C	EP 0 932 134 A1	09/1997	EPO			Eng. Text
	D	EP 1 022 578 A2	7/2000	EPO			Eng. Text
	E	EP 1 098 168 A2	05/2001	EPO			Eng. Text
	F	EP 1 102 036 A1	5/2001	EPO			Eng. Text
	G	EP 1 122 517 A2	8/2001	EPO			No
	H	EP 1 167 923 A2	1/2002	EPO			No
	I	WO 98/27530	06/1998	PCT			Eng. Abstract
	J	WO 98/45724	10/1998	PCT			Eng. Abstract
	K	WO 99/24787	5/1999	PCT			Eng. Abstract
	L	WO 99/56081	11/1999	PCT			Eng. Abstract
	M	WO 99/56264	11/1999	PCT			Eng. Text
	N	WO 00/08616	02/2000	PCT			Eng. Abstract
	O	WO 00/49530	08/2000	PCT			Eng. Text
	P	WO 00/50845	08/2000	PCT			Eng. Abstract
	Q	WO 01/18768 A1	03/2001	PCT			Eng. Abstract
	R	WO 01/18769 A1	03/2001	PCT			Eng. Abstract
	S	WO 01/50089 A1	07/2001	PCT			Eng. Abstract
	T	WO 01/50437 A1	07/2001	PCT			Eng. Abstract
	U	WO 01/75838 A1	10/2001	PCT			Eng. Abstract
	V	WO 01/84081 A1	11/2001	PCT			Eng. Abstract
	W	WO 02/04894 A1	01/2002	PCT			Eng. Abstract
	X	WO 02/14788 A1	02/2002	PCT			Eng. Abstract
	Y	WO 02/16874 A1	02/2002	PCT			Eng. Abstract

Examiner:

Date Considered

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FOREIGN PATENT DOCUMENTS							
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		Document No.	Date	Country	Class	Subclass	Translation
	A	3-152700	06/1991	Japan			cited on Search Report
	B	7-65287	03/1995	Japan			cited on Search Report
	C	8-338736	12/1996	Japan			cited on Search Report
	D	9-326095	12/1997	Japan			cited on Search Report
	E	11-214068	07/1999	Japan			cited pg 3 of spec
	F	11-242166	08/1999	Japan			cited pg 3 of spec

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)		
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	G	Abstract of U.S. Patent No. 4,040,740: Date issued: 08/1977
	H	Abstract of U.S. Patent No. 4,063,237: Date issued: 12/1977
	I	Abstract of U.S. Patent No. 4,151,656: Date issued: 05/1979
	J	Abstract of U.S. Patent No. 4,196,474: Date issued: 04/1980
	K	Abstract of U.S. Patent No. 4,251,797: Date issued: 02/1981
	L	Abstract of U.S. Patent No. 4,304,487: Date issued: 12/1981
	M	Abstract of U.S. Patent No. 4,725,957: Date issued: 02/1988
	N	Abstract of U.S. Patent No. 4,728,888: Date issued: 03/1988
	O	Abstract of U.S. Patent No. 4,729,172: Date issued: 03/1988
	P	Abstract of U.S. Patent No. 4,731,727: Date issued: 03/1988
	Q	Abstract of U.S. Patent No. 4,733,179: Date issued: 03/1988
	R	Abstract of U.S. Patent No. 4,782,453: Date issued: 11/1988
	S	Abstract of U.S. Patent No. 4,784,237: Date issued: 11/1988
	T	Abstract of U.S. Patent No. 4,807,264: Date issued: 02/1989

Examiner:	Date Considered
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Form PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 34825US1	SERIAL NO. N/A
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		FILING DATE: Herewith	GROUP ART UNIT:

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

	A	Abstract of U.S. Patent No. 4,835,870: Date issued: 06/1989
	B	Abstract of U.S. Patent No. 4,989,333: Date issued: 02/1991
	C	Abstract of U.S. Patent No. 5,020,143: Date issued: 05/1991
	D	Abstract of U.S. Patent No. 5,021,962: Date issued: 06/1991
	E	Abstract of U.S. Patent No. 5,059,965: Date issued: 10/1991
	F	Abstract of U.S. Patent No. 5,095,532: Date issued: 03/1992
	G	Abstract of U.S. Patent No. 5,146,219: Date issued: 09/1992
	H	Abstract of U.S. Patent No. 5,148,604: Date issued: 09/1992
	I	Abstract of U.S. Patent No. 5,173,691: Date issued: 12/1992
	J	Abstract of U.S. Patent No. 5,177,685: Date issued: 01/1993
	K	Abstract of U.S. Patent No. 5,182,555: Date issued: 01/1993
	L	Abstract of U.S. Patent No. 5,184,123: Date issued: 02/1993
	M	Abstract of U.S. Patent No. 5,193,214: Date issued: 03/1993
	N	Abstract of U.S. Patent No. 5,247,252: Date issued: 09/1993
	O	Abstract of U.S. Patent No. 5,261,279: Date issued: 11/1993
	P	Abstract of U.S. Patent No. 5,279,040: Date issued: 01/1994
	Q	Abstract of U.S. Patent No. 5,283,575: Date issued: 02/1994
	R	Abstract of U.S. Patent No. 5,332,180: Date issued: 07/1994
	S	Abstract of U.S. Patent No. 5,351,539: Date issued: 10/1994
	T	Abstract of U.S. Patent No. 5,396,429: Date issued: 03/1995
	U	Abstract of U.S. Patent No. 5,406,490: Date issued: 04/1995
	V	Abstract of U.S. Patent No. 5,416,711: Date issued: 05/1995
	W	Abstract of U.S. Patent No. 5,438,687: Date issued: 08/1995
	X	Abstract of U.S. Patent No. 5,440,389: Date issued: 08/1995
	Y	Abstract of U.S. Patent No. 5,465,088: Date issued: 11/1995
	Z	Abstract of U.S. Patent No. 5,473,930: Date issued: 12/1995

Examiner:	Date Considered
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				FILING DATE: Herewith		GROUP ART UNIT:	
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)							
	A	Abstract of U.S. Patent No. 5,487,009: Date issued: 01/1996					
	B	Abstract of U.S. Patent No. 5,504,482: Date issued: 04/1996					
	C	Abstract of U.S. Patent No. 5,508,917: Date issued: 04/1996					
	D	Abstract of U.S. Patent No. 5,515,042: Date issued: 05/1996					
	E	Abstract of U.S. Patent No. 5,523,765: Date issued: 06/1996					
	F	Abstract of U.S. Patent No. 5,602,542: Date issued: 02/1997					
	G	Abstract of U.S. Patent No. 5,629,690: Date issued: 05/1997					
	H	Abstract of U.S. Patent No. 5,659,476: Date issued: 08/1997					
	I	Abstract of U.S. Patent No. 5,703,293: Date issued: 12/1997					
	J	Abstract of U.S. Patent No. 5,710,566: Date issued: 01/1998					
	K	Abstract of U.S. Patent No. 5,736,941: Date issued: 04/1998					
	L	Abstract of U.S. Patent No. 5,745,865: Date issued: 04/1998					
	M	Abstract of U.S. Patent No. 5,748,107: Date issued: 05/1998					
	N	Abstract of U.S. Patent No. 5,757,285: Date issued: 05/1998					
	O	Abstract of U.S. Patent No. 5,797,112: Date issued: 08/1998					
	P	Abstract of U.S. Patent No. 5,812,069: Date issued: 09/1998					
	Q	Abstract of U.S. Patent No. 5,826,212: Date issued: 10/1998					
	R	Abstract of U.S. Patent No. 5,828,322: Date issued: 10/1998					
	S	Abstract of U.S. Patent No. 5,842,146: Date issued: 11/1998					
	T	Abstract of U.S. Patent No. 5,850,190: Date issued: 12/1998					
	U	Abstract of U.S. Patent No. 5,905,451: Date issued: 05/1999					
	V	Abstract of U.S. Patent No. 5,926,118: Date issued: 07/1999					
	W	Abstract of U.S. Patent No. 5,933,094: Date issued: 08/1999					
	X	Abstract of U.S. Patent No. 5,933,100: Date issued: 08/1999					
Examiner:				Date Considered			
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INFORMATION DISCLOSURE CITATION BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY) Page 7 of 8				APPLICANT: Shinya Adachi	
				FILING DATE: Herewith	GROUP ART UNIT:
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)					
	A	Abstract of U.S. Patent No. 5,974,356: Date issued: 10/1999			
	B	Abstract of U.S. Patent No. 5,977,885: Date issued: 11/1999			
	C	Abstract of U.S. Patent No. 5,990,809: Date issued: 11/1999			
	D	Abstract of U.S. Patent No. 5,995,023: Date issued: 11/1999			
	E	Abstract of U.S. Patent No. 5,996,409: Date issued: 12/1999			
	F	Abstract of U.S. Patent No. 6,006,161: Date issued: 12/1999			
	G	Abstract of U.S. Patent No. 6,012,012: Date issued: 01/2000			
	H	Abstract of U.S. Patent No. 6,031,600: Date issued: 02/2000			
	I	Abstract of U.S. Patent No. 6,064,319: Date issued: 05/2000			
	J	Abstract of U.S. Patent No. 6,097,313: Date issued: 08/2000			
	K	Abstract of U.S. Patent No. 6,104,480: Date issued: 08/2000			
	L	Abstract of U.S. Patent No. 6,107,940: Date issued: 08/2000			
	M	Abstract of U.S. Patent No. 6,107,941: Date issued: 08/2000			
	N	Abstract of U.S. Patent No. 6,111,521: Date issued: 08/2000			
	O	Abstract of U.S. Patent No. 6,111,523: Date issued: 08/2000			
	P	Abstract of U.S. Patent No. 6,114,973: Date issued: 09/2000			
	Q	Abstract of U.S. Patent No. 6,137,564: Date issued: 10/2000			
	R	Abstract of U.S. Patent No. 6,150,961: Date issued: 11/2000			
	S	Abstract of U.S. Patent No. 6,163,752: Date issued: 12/2000			
	T	Abstract of U.S. Patent No. 6,169,955: Date issued: 01/2001			
	U	Abstract of U.S. Patent No. 6,169,956: Date issued: 01/2001			
	V	Abstract of U.S. Patent No. 6,178,378: Date issued: 01/2001			
	W	Abstract of U.S. Patent No. 6,192,314: Date issued: 02/2001			
	X	Abstract of U.S. Patent No. 6,208,268: Date issued: 03/2001			
Examiner:			Date Considered		
*Examiner: Initial if reference considered, regardless of whether citation is in conformance with MPEP 609; Draw line through citation if not in conformance <u>and</u> not considered. Include copy of this form with next communication to applicant.					

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				FILING DATE: Herewith	GROUP ART UNIT:
OTHER REFERENCES <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>					
	A	Abstract of U.S. Patent No. 6,212,473: Date issued: 04/2001			
	B	Abstract of U.S. Patent No. 6,223,125: Date issued: 04/2001			
	C	Abstract of U.S. Patent No. 6,230,099: Date issued: 05/2001			
	D	Abstract of U.S. Patent No. 6,232,917: Date issued: 05/2001			
	E	Abstract of U.S. Patent No. 6,236,336: Date issued: 05/2001			
	F	Abstract of U.S. Patent No. 6,236,933: Date issued: 05/2001			
	G	Abstract of U.S. Patent No. 6,244,111: Date issued: 06/2001			
	H	Abstract of U.S. Patent No. 6,249,754: Date issued: 06/2001			
	I	Abstract of U.S. Patent No. 6,266,609: Date issued: 07/2001			
	J	Abstract of U.S. Patent No. 6,281,807: Date issued: 08/2001			
	K	Abstract of U.S. Patent No. 6,281,808: Date issued: 08/2001			
	L	Abstract of U.S. Patent No. 6,292,747: Date issued: 09/2001			
	M	Abstract of U.S. Patent No. 6,293,024: Date issued: 09/2001			
	N	Abstract of U.S. Patent No. 6,298,303: Date issued: 10/2001			
	O	Abstract of U.S. Patent No. 6,321,158: Date issued: 11/2001			
	P	Abstract of U.S. Patent No. 6,324,467: Date issued: 11/2001			
	Q	Abstract of U.S. Patent No. 6,324,888: Date issued: 12/2001			
	R	Abstract of U.S. Patent No. 6,326,887: Date issued: 12/2001			
	S	Abstract of U.S. Patent No. 6,327,532: Date issued: 12/2001			
	T	Patent Abstracts of Japan Publication no. 10255022, Publication Date 09/25/1998, Title: "INFORMATION PROCESSOR AND METHOD AND IMAGE DISPLAY DEVICE AND METHOD", 1 page			
	U				
	V				
	W				
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